Converting metric units

ANSWERS

1

Convert 4.5 m into cm.

m	1	→	4.5
cm	100	× 4.5 →	450

Working: 100 × 4.5 = 450

Answer: 450 cm

2

Convert 2.6 kg into g.

kg	1	→	2.6
g	1000	× 2.6 →	2600

Fact: 1 kg = 1000 g

Working: 1000 × 2.6 = 2600

Answer: 2600 g

3

Convert 3700 g into kg.

kg	1	→	3.7
g	1000	× 3.7 →	3700

Multiplier: 3700 ÷ 1000 = 3.7

Answer: 3.7 kg

4

Convert 0.9 litres into ml.

litres	1	→	0.9
ml	1000	× 0.9 →	900

Fact: 1 litre = 1000 ml

Working: 1000 × 0.9 = 900

Answer: 900 ml

5

Convert 46 mm into cm.

cm	1	→	4.6
mm	10	× 4.6 →	46

Fact: 1 cm = 10 mm

Multiplier: 46 ÷ 10 = 4.6

Answer: 4.6 cm

6

Which is longer, 0.7 km or 680 m?
Show how you know.

0.7 km = 700 m

700 m is more than 680 m

Answer: 0.7 km

7

Convert 850 cm into metres.
Jay multiplies by 100 and says 85 000 m. Explain his mistake, then find the right answer.

m is the bigger unit, so ÷ 100

850 ÷ 100 = 8.5

Answer: 8.5 m

8

A jug has 1.4 litres of water in it.
Kim pours in 250 ml more.
How much water is in the jug now, in ml?

1.4 litres = 1400 ml

1400 + 250 = 1650

Answer: 1650 ml

Converting metric units *further practice*

ANSWERS

9

Convert 6.05 m into cm.

1 m = 100 cm

6.05 × 100

Answer 605 cm

10

Convert 4750 ml into litres.

1 litre = 1000 ml

4750 ÷ 1000

Answer 4.75 litres

11

Write these masses in order, lightest first.
1.3 kg 1250 g 1.09 kg

1.3 kg = 1300 g, 1.09 kg = 1090 g

Answer 1.09 kg, 1250 g, 1.3 kg

12

Convert 1.6 km into cm.

1.6 km = 1600 m

1600 × 100

Answer 160 000 cm

13

A plank is 2.5 m long. Ben cuts 70 cm off it. How long is the rest of the plank, in cm?

2.5 m = 250 cm

250 – 70

Answer 180 cm

14

Convert 45 000 mm into metres.

45 000 ÷ 10 = 4500 cm

4500 ÷ 100

Answer 45 m

15

A bottle holds 1.5 litres of juice.
How many 250 ml glasses can you fill from the bottle?

1.5 litres = 1500 ml

1500 ÷ 250

Answer 6 glasses

16

Lily says 3 kg and 40 g is the same as 3.4 kg. Is she right?
Explain how you know.

3 kg = 3000 g, 3000 + 40 = 3040 g

3.4 kg = 3400 g

Answer No, it is 3.04 kg